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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/039,060	01/02/2002	Sujat Jamil	42390P12483	9109
8791	7590 09/20/2004		EXAM	INER
BLAKELY	SOKOLOFF TAYLO	LANE, JOHN A		
12400 WILSH	HRE BOULEVARD		<del></del>	
SEVENTH F	LOOR	ART UNIT	PAPER NUMBER	
LOS ANGEL	ES, CA 90025-1030	•	2188	

DATE MAILED: 09/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
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Office Action Summers		10/039,060	JAMIL ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Jack A Lane	2188	<u> </u>			
Period fo	The MAILING DATE of this commun or Reply	nication appears on the cover sh	et with the correspondence a	iddress			
THE - Exte after - If the - If NO - Failc Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this come period for reply specified above is less than thirty (3 period for reply is specified above, the maximum sine to reply within the set or extended period for reply reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). In no event, however, munication. 30) days, a reply within the statutory minimun tatutory period will apply and will expire SIX (sy will, by statute, cause the application to bec	may a reply be timely filed  n of thirty (30) days will be considered tim by MONTHS from the mailing date of this ome ABANDONED (35 U.S.C. § 133).				
Status							
1)🖾	Responsive to communication(s) file	ed on <u>02 January 2002</u> .					
2a)[☐	This action is <b>FINAL</b> .	2b)⊠ This action is non-final.					
3)[]	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1-26 is/are pending in the 44a) Of the above claim(s) is/ac Claim(s) is/are allowed.  Claim(s) 1-26 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restrict	are withdrawn from consideration					
Applicat	ion Papers						
9)[]	The specification is objected to by the	e Examiner.					
10)[	The drawing(s) filed on is/are	: a) ☐ accepted or b) ☐ objecte	ed to by the Examiner.				
	Applicant may not request that any obje						
11)[7]	Replacement drawing sheet(s) including The oath or declaration is objected to	· ·	= ' '	` '			
		o by the Examiner. Note the atta	sched Office Action of form P	10-152.			
Priority (	ınder 35 U.S.C. § 119						
a) <u>(</u>	<ul><li>2. Certified copies of the priority</li><li>3. Copies of the certified copies</li></ul>	documents have been received documents have been received of the priority documents have onal Bureau (PCT Rule 17.2(a))	I. I in Application No been received in this Nationa	al Stage			
Attachmen							
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F	4) Inter	view Summary (PTO-413) er No(s)/Mail Date				
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date	PTO/SB/08) 5) Notice	ce of Informal Patent Application (PT	ΓO-152)			

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### **DETAILED ACTION**

- 1. Claims 1-26 are presented for examination.
- The examiner requests, in response to this Office action, any reference(s) known 2. to qualify as prior art under 35 U.S.C. sections 102 or 103 with respect to the instant claims. That is, any prior art (including any products for sale) similar to the instant claimed invention that could reasonably be used in a 102 or 103 rejection. This request does not require applicant to perform a search. This request is not intended to interfere with or go beyond that required under 37 C.F.R. 1.56 or 1.105. This request may be fulfilled by asking the attorney(s) of record handling prosecution and the inventor(s)/assignee for references qualifying as prior art. A simple statement that the query has been made and no prior art found is sufficient to fulfill the request. Otherwise, the fee and certification requirements of 37 CFR section 1.97 are waived for those documents submitted in reply to this request. This waiver extends only to those documents within the scope of this request under 37 CFR, section 1.105 that are included in the application's first complete communication responding to this requirement. Any supplemental replies subsequent to the first communication responding to this request and any information disclosures beyond the scope of this request under 37 CFR section 1.105 are subject to the fee and certification requirements of 37 CFR section 1.97. In the

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event prior art documentation is submitted a discussion of relevant passages, figs. etc. is requested. A response to this inquiry is greatly appreciated.

The examiner also requests, in response to this Office action, support be shown for language added to any original claims on amendment and any new claims. That is, indicate support for newly added claim language by specifically pointing to page(s) and line no(s). in the specification and/or drawing figure(s). This will assist the examiner in prosecuting the application.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-26 are rejected under 35 U.S.C. § 102(b) as being anticipated by Venkitakrishnan et al. (Pat. No. 2003/0023794).

Venkitakrishnan teaches the claimed "integrated circuit" as single integrated circuit die 150 shown in figure 1 (col. 2, [0023]). The claimed "first processor with a

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first dedicated cache" corresponds to one of processors 101-105 and caches 111-115. The claimed "second processor with a second dedicated cache" corresponds to a second one of processors 101-105 and caches 111-115. The claimed "control logic" corresponds to circuitry including a snooping agent ([0031]. The claimed function to "transfer first data from the first dedicated cache to the second dedicated cache" corresponds to the function copy forward (i.e. cache to cache transfer) discusses at [0091]. Snooping logic (snoop agent) in combination with system bus 110 are configured to provide cache coherent snooping commands to enable the processor units (101-105) to ensure cache coherency between their respective cache units and the embedded RAM (see Abstract). The claimed "shared cache" corresponds to sDRAM core 130. The claimed "write buffer" and "fill buffer" could correspond to circuitry including In-Order-Queues (IOQ's) discussed in section [0050]. The claimed "multiplexer" corresponds to circuitry inherently found in the device of Venkitakrishnan for transferring data from one cache to the other or from DRAM core to/from the cache or from I/O to/from the caches.

The examiner believes all dependent claim features are expressly or inherently taught by Venkitakrishnan. The dependent claim features, while part of the invention, appear to be well known and their relevance not essential to the main invention found in the independent claim(s). Thus, a detailed discussion of the well known claim feature(s) is not warranted at this time. For example, write buffers/fill buffers are generally well

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known features of cache devices. That is, data is presented to the cache maintained in a register/buffer and then written into the cache.

### Any response to this action should be mailed to:

Under Secretary of Commerce for Intellectual Property and Director of the United States Patent and Trademark Office PO Box 1450

Alexandria, VA 22313-1450

#### or faxed to:

(703) 872-9306, (for Official communications intended for entry)

Or:

(703) 872-9306, (for Non-Official or draft communications, please label "Non-Official" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jack A. Lane whose telephone number is 703 305-3818. The examiner can normally be reached on Mon-Fri from 7:30AM-6:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mano Padmanabhan can be reached on 703 306-2903.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 305-3900.

PRIMARY EXAMINER